

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P191775

Luminaire Tested: **GLEON-AF-07-LED-E1-AFL-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191775
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-AFL-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43194 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

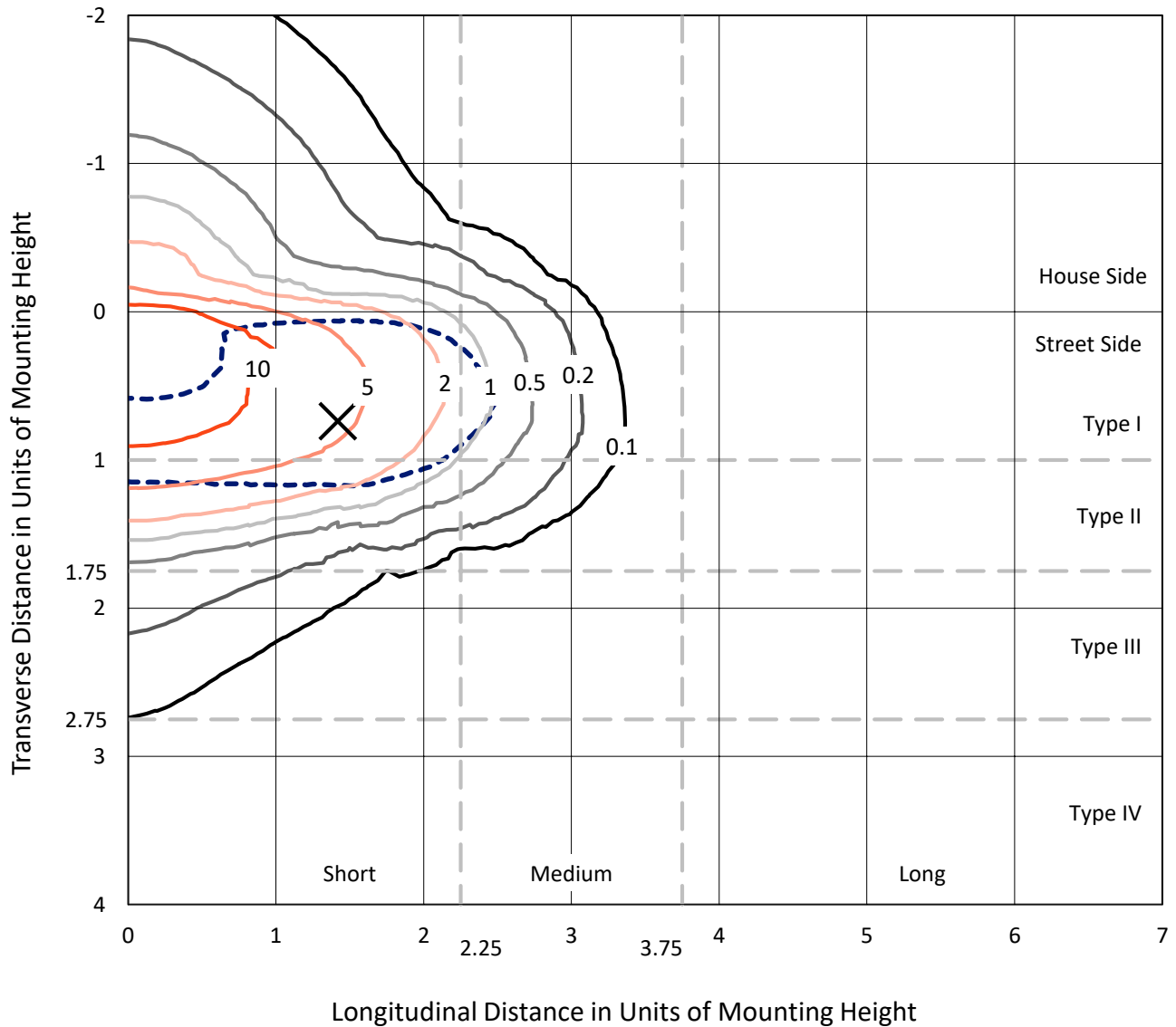
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

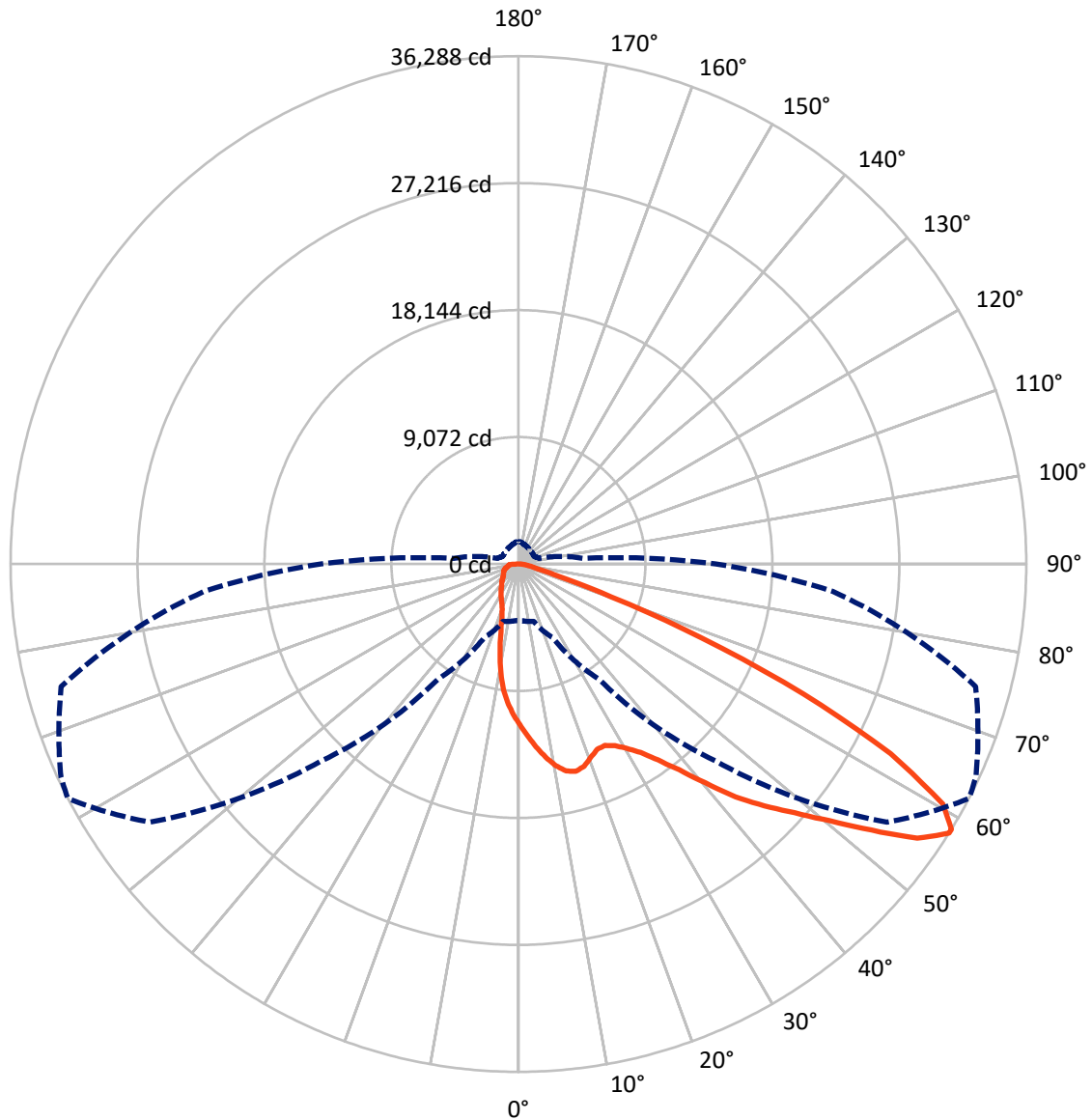
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.5 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6587.2	0.0	6587.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	36606.7	0.0	36606.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	43194.0	0.0	43194.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1026.1	2.4
10°-20°	2623.0	6.1
20°-30°	4240.1	9.8
30°-40°	6731.2	15.6
40°-50°	9849.1	22.8
50°-60°	10301.4	23.8
60°-70°	6086.1	14.1
70°-80°	1714.5	4.0
80°-90°	622.4	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	43194.0	100.0
0°-180°	43194.0	100.0



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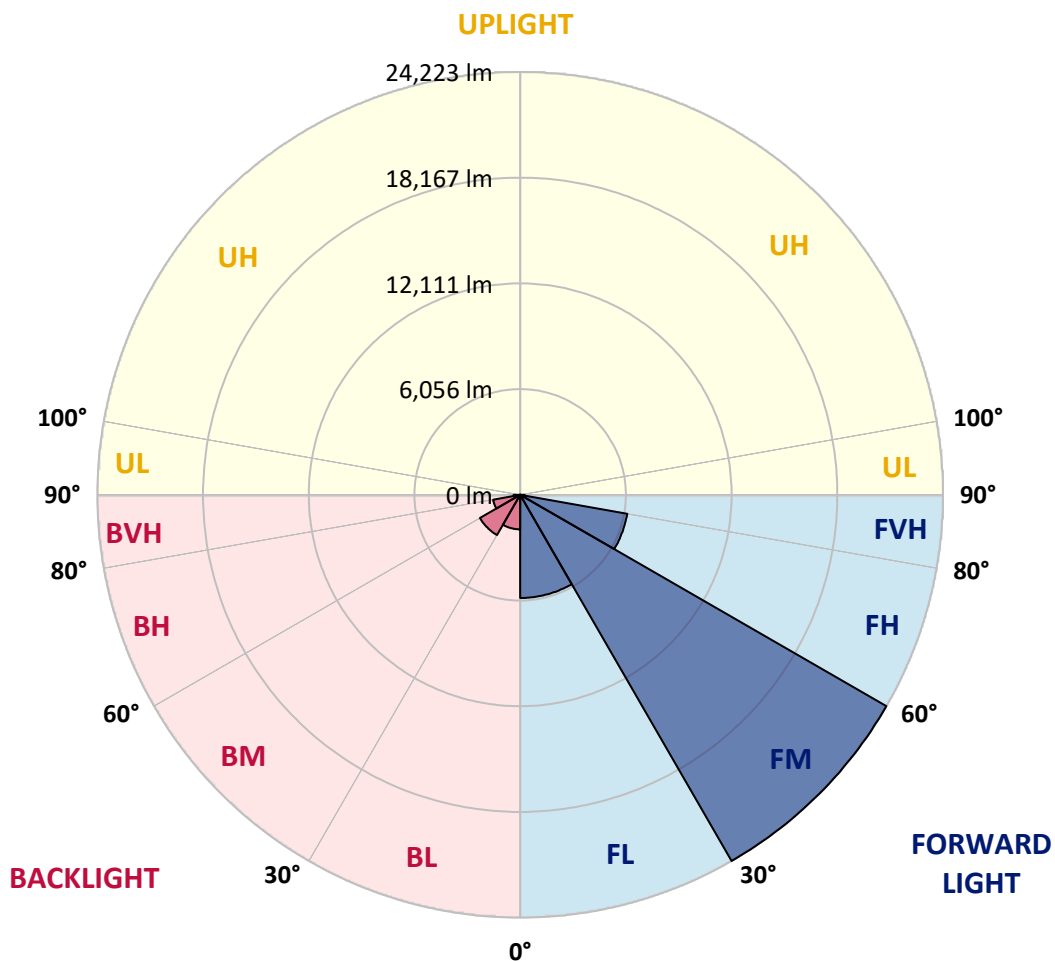
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5909.5	13.7			
FM	(30°-60°)	24223.0	56.1			
FH	(60°-80°)	6228.8	14.4			G3/7500
FVH	(80°-90°)	245.6	0.6			G3/500
BL	(0°-30°)	1979.8	4.6	B3/2500		
BM	(30°-60°)	2658.8	6.2	B3/5000		
BH	(60°-80°)	1571.8	3.6	B3/2500		G3/2500
BVH	(80°-90°)	376.9	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	11473.6	11473.6	11473.6	11473.6	11473.6	11473.6	11473.6	11473.6	11473.6	11473.6	11473.6
2.5°	13110.9	13005.2	12938.1	12879.1	12801.8	12637.0	12415.3	12275.0	12203.8	11961.8	11675.0
5°	14396.4	14302.9	14233.7	14154.4	14016.1	13757.8	13399.8	13115.0	12974.7	12490.6	11917.0
7.5°	14095.4	14134.0	14254.0	14463.5	14642.5	14607.9	14288.6	13926.6	13741.5	13068.2	12197.7
10°	12281.1	12348.2	12555.7	13045.9	13839.1	14652.7	14900.8	14650.7	14463.5	13639.8	12486.5
12.5°	11917.0	11915.0	11931.2	12061.4	12533.3	13678.4	14921.2	15173.4	15061.5	14184.9	12781.4
15°	12065.5	12069.6	12057.4	12112.3	12258.7	12712.3	14298.8	15374.8	15454.1	14734.1	13086.5
17.5°	12456.0	12445.8	12399.1	12399.1	12451.9	12628.9	13566.6	15187.6	15553.7	15220.2	13355.0
20°	13110.9	13064.2	12940.1	12826.2	12769.2	12864.8	13265.5	14756.4	15380.9	15645.3	13576.7
22.5°	13904.2	13867.6	13666.2	13422.1	13224.9	13222.8	13420.1	14380.1	15081.9	16046.0	13763.9
25°	14929.3	14870.3	14571.3	14180.8	13835.0	13702.8	13757.8	14361.8	14919.1	16481.2	13930.6
27.5°	16133.4	16025.6	15671.7	15108.3	14599.8	14333.4	14254.0	14693.4	15067.6	17020.2	14162.5
30°	17593.8	17469.7	17016.2	16281.9	15563.9	15126.6	14957.8	15281.2	15559.8	17677.2	14534.7
32.5°	19255.6	19076.6	18551.8	17742.3	16798.5	16131.4	15856.8	16058.2	16279.9	18468.4	15000.5
35°	21551.9	21338.3	20579.7	19463.0	18397.2	17479.9	17040.6	17187.0	17402.6	19648.1	15673.7
37.5°	23118.1	23022.5	22518.0	21468.5	20309.2	19253.5	18574.2	18659.6	18781.6	21122.7	16536.1
40°	23103.8	23142.5	23152.6	23162.8	22373.6	21362.8	20632.6	20543.1	20518.7	22741.8	17516.5
42.5°	21946.5	22105.2	22617.7	23657.1	24137.1	23673.3	23004.2	22745.9	22617.7	24649.6	18555.9
45°	20174.9	20260.3	21220.4	23250.3	25040.2	25961.6	25455.1	24641.5	24409.6	26402.9	19418.3
47.5°	19261.7	19355.2	19959.3	22172.3	25030.0	27810.4	28103.3	26553.4	26138.5	27928.4	20162.7
50°	17087.4	17282.6	18043.3	20297.0	24116.7	28660.6	30871.5	28831.5	27973.1	29413.2	20909.2
52.5°	13094.7	13395.7	14247.9	17213.5	21800.1	28239.6	33086.5	31593.6	30381.4	30950.9	21549.9
55°	8259.9	8483.7	9199.6	12157.0	17439.2	26049.0	33926.6	34581.5	33503.5	32407.2	22105.2
57.5°	4491.0	4590.7	4859.1	6712.1	11343.4	21206.1	32702.1	36281.9	35834.4	33643.8	22524.1
58°	4019.1	4086.2	4253.0	5817.1	10060.0	19882.0	32159.0	36288.0	36064.3	33824.9	22556.7
60°	2981.8	2947.2	2798.7	3319.4	5599.5	13735.4	28876.2	34835.7	35492.7	34046.6	22398.0
62.5°	2619.7	2536.4	2233.3	2198.7	2723.5	6327.7	22095.0	29840.3	31392.2	32781.4	21433.9
65°	2461.1	2371.6	1981.1	1855.0	1964.8	2676.7	13015.4	22379.7	24326.2	28945.4	18968.8
67.5°	2343.1	2227.2	1820.4	1647.5	1655.6	1769.6	5217.1	14095.4	16286.0	21977.0	14754.4
70°	2229.2	2103.1	1684.1	1484.8	1438.0	1399.4	2074.6	7055.8	9043.0	13881.8	9407.1
72.5°	2107.2	1983.1	1564.1	1356.7	1265.1	1137.0	1354.6	2886.2	4031.3	6567.7	4267.3
75°	1930.2	1818.4	1444.1	1242.8	1112.6	941.7	1023.1	1507.2	1808.2	2615.7	2056.3
77.5°	1712.6	1621.1	1309.9	1149.2	986.5	764.8	787.1	1045.5	1159.4	1497.0	1222.4
80°	1230.5	1263.1	1165.5	1033.3	878.7	620.4	604.1	762.7	823.8	962.1	795.3
82.5°	864.4	882.7	964.1	844.1	726.1	488.2	445.4	537.0	573.6	632.6	429.2
85°	596.0	575.6	661.0	587.8	524.8	325.4	305.1	364.1	386.5	392.6	221.7
87.5°	358.0	358.0	382.4	315.3	282.7	168.8	164.8	207.5	221.7	211.5	122.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11473.6	11473.6	11473.6	11473.6	11473.6	11473.6	11473.6	11473.6	11473.6	11473.6	11473.6
2.5°	11504.1	11359.7	11052.6	10806.5	10495.3	10171.9	9990.8	9797.6	9665.4	9569.8	9722.4
5°	11591.6	11296.7	10662.1	10060.0	9394.9	8703.3	8178.6	7690.4	7350.8	7139.2	7338.6
7.5°	11729.9	11276.3	10265.4	9236.2	8042.3	6891.1	5861.9	5217.1	4840.8	4655.7	4771.7
10°	11888.5	11243.8	9799.7	8119.6	6411.1	4960.8	4192.0	3931.7	3846.2	3811.7	3827.9
12.5°	12020.7	11174.6	9228.1	6769.0	4814.4	3917.4	3695.7	3689.6	3707.9	3712.0	3718.1
15°	12114.3	11072.9	8379.9	5361.5	3850.3	3569.6	3557.4	3594.0	3628.6	3642.8	3651.0
17.5°	12177.4	10863.4	7421.9	4238.8	3449.6	3400.8	3429.3	3476.0	3512.7	3522.8	3531.0
20°	12171.3	10556.3	6280.9	3535.0	3232.0	3232.0	3280.8	3317.4	3319.4	3307.2	3313.3
22.5°	12108.2	10135.3	5174.4	3160.8	3038.7	3073.3	3122.1	3087.6	2945.2	2851.6	2857.7
25°	12002.4	9632.9	4226.6	2922.8	2859.8	2920.8	2906.5	2646.2	2442.8	2351.3	2351.3
27.5°	11908.9	9038.9	3498.4	2715.3	2680.8	2756.0	2503.8	2267.9	2182.4	2139.7	2125.5
30°	11841.8	8398.2	3012.3	2516.0	2511.9	2457.0	2172.3	2107.2	2093.0	2058.4	2046.2
32.5°	11858.0	7749.4	2701.1	2341.1	2355.3	2103.1	2013.6	2027.9	2015.7	1979.0	1962.8
35°	11992.3	7133.1	2497.7	2182.4	2139.7	1899.7	1920.1	1946.5	1942.4	1891.6	1875.3
37.5°	12232.3	6549.4	2363.5	2050.2	1867.2	1798.0	1830.6	1871.2	1861.1	1826.5	1814.3
40°	12484.5	6000.2	2253.6	1946.5	1706.5	1728.9	1757.3	1779.7	1789.9	1800.1	1791.9
42.5°	12730.6	5426.6	2119.4	1840.7	1639.4	1663.8	1676.0	1698.4	1753.3	1791.9	1789.9
45°	12877.0	4887.6	1981.1	1690.2	1586.5	1600.7	1592.6	1637.3	1704.5	1767.5	1769.6
47.5°	13039.8	4468.6	1871.2	1551.9	1535.6	1545.8	1521.4	1566.2	1627.2	1704.5	1712.6
50°	13237.1	4218.4	1783.8	1442.1	1466.5	1466.5	1460.4	1501.1	1586.5	1676.0	1692.3
52.5°	13460.8	4169.6	1710.6	1362.8	1397.3	1395.3	1401.4	1462.4	1556.0	1643.4	1657.7
55°	13733.3	4301.8	1631.2	1303.8	1330.2	1338.4	1358.7	1427.8	1507.2	1606.8	1612.9
57.5°	14050.6	4570.3	1568.2	1257.0	1269.2	1295.6	1328.2	1391.2	1476.7	1586.5	1592.6
58°	14103.5	4627.3	1558.0	1252.9	1257.0	1287.5	1324.1	1385.1	1470.6	1590.6	1596.7
60°	14105.6	4816.4	1535.6	1234.6	1210.2	1261.1	1301.7	1362.8	1460.4	1604.8	1619.0
62.5°	13605.2	4814.4	1519.4	1208.2	1161.4	1224.4	1271.2	1342.4	1450.2	1639.4	1667.9
65°	11980.1	4375.1	1442.1	1167.5	1122.7	1191.9	1244.8	1328.2	1478.7	1789.9	1808.2
67.5°	9370.5	3585.9	1297.7	1110.5	1071.9	1159.4	1228.5	1326.1	1509.2	1824.5	1836.7
70°	6195.5	2682.8	1139.0	1045.5	1019.0	1120.7	1236.7	1395.3	1474.6	1751.2	1718.7
72.5°	3215.7	1883.5	1010.9	964.1	958.0	1086.1	1354.6	1387.2	1440.0	1647.5	1606.8
75°	1688.2	1307.8	899.0	874.6	884.8	1078.0	1598.7	1350.6	1395.3	1576.3	1653.6
77.5°	1033.3	1055.6	803.4	793.2	813.6	1053.6	1596.7	1303.8	1330.2	1450.2	1535.6
80°	691.5	856.3	730.2	732.2	746.5	964.1	1433.9	1230.5	1250.9	1370.9	1458.4
82.5°	437.3	506.5	663.1	697.7	679.3	795.3	1218.3	1120.7	1149.2	1568.2	1657.7
85°	221.7	317.3	575.6	671.2	612.2	557.3	988.5	982.4	996.6	1130.9	1181.7
87.5°	101.7	174.9	449.5	585.8	461.7	347.8	718.0	728.2	785.1	803.4	803.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)